

ACADEMIA SCIENTIARUM BOHEMOSLOVACA

QP
1
C417

BOHEMOSLOVACA PHYSIOLOGIA

VOL. 25 - 1976

Contents

Aquino-Cias J., Aneiros-Riba R., Hernandez-Mesa N.: Cortical after-discharges during Leao's cortical spreading depression	67
Babický A., Pavlík J., Pařízek I., Ošťádalová I., Kolář J.: Effect of short-term removal of infant rats from the female on lactation	193
Borovanský J., Horčíčko J., Duchoň J.: The hair melanosome: another tissue reservoir of zinc	87
Brabcová J., Drahota Z.: Optimum conditions for the oxidation of palmityl-carnitine by the mitochondria of rat brown adipose tissue	115
Chlebounová J., Řežábek K.: Effect of D-6-methyl-8-ergoline-1-ylacetamide (Deprenon) on the FSH content of the pituitary in castrated female rats	407
Chocholová L.: Effect of Diazepam on the electroencephalographic pattern and vigilance of unanaesthetized and curarized rats with a chronic cobalt-gelatin focus	129
Chorváthová V., Dzúrik R., Ondreička R., Ozdín L., Nemec R., Červeň J.: Effect of glucose utilization inhibitor isolated from the serum and urine of patients with chronic renal failure on the free fatty acid metabolism in rat kidney cortex slices	123
Čepica S., Valenta M., Pavlů V.: Prenatal changes of lactate dehydrogenase isoenzyme patterns and activity in bovine tissues	551
Dlouhá H.: The effect of vasopressin on renal function in young rats. A clearance and micropuncture study	535
Duda P., Pavlásek J.: Interaction of visceral and somatic afferentation at the level of postsynaptic spinal cord elements	59
Duda P., Pavlásek J.: Functional characteristics of the intraspinal spread of viscerosomatic activity	495
Dvořák M., Raszyk J.: Effect of insulin hypoglycaemia on adrenocortical function and blood plasma vitamin E and cholesterol levels in suckling and weaned piglets	7
Erdősová R., Kraus M.: Effect of sodium intake on aldosterone and corticosterone production, the serum sodium concentration and body weight in infant rats during the weaning period	1
Fiala J., Viktora L.: The effect of splenectomy on bone marrow haematopoiesis in mice	419
Fiala J., Viktora L., Jirásek A.: Experimental hypersplenism in mice	167
Grafnetterová J., Blahošová A., Neradilová M.: Effect of 6-azauridine on calcium metabolism in rats	235
Gutmann E., Melichna J., Syrový I.: Independence of changes in contraction properties and myofibrillar ATPase activity of denervated mammalian muscle on length of nerve stump	43
Havassy I., Bođa K., Košta K., Rybošová E.: Incorporation of intravenously administered urea — ¹⁵ N into sheep plasma proteins and their amide groups	333
Herget J., Paleček F., Vizek M., Holuša R.: Causes of experimental pulmonary hypertension in rats	411
Hrachovina V., Mourek J.: Influence of starvation on lactic dehydrogenase activity in the serum and brain of rats of different ages	313
Husáková A., Šimek J.: Effect of adrenal glucocorticoids on beta-lipoprotein production by resected liver	147
Indra M., Žalud P., Krekule I., Dědina B., Rothenberg S.: A hybrid modular set for on-line preprocessing of data in electrophysiology	371
Itze L., Vesselinovitch S. D., Rao K. V. N.: Inter and intra diurnal variations of DNA, RNA and young adult mouse livers	289
Jakoubek B., Hájek I.: The effect of ACTH and diazepam on the uptake of tritiated uridine into brain muscles and liver of infant rats	301
Janáček K., Rybová R., Slavíková M.: Mucosal and serosal effects of insulin on ion content of the frog urinary bladder	385
Janáček K., Rybová R., Slavíková M.: Absence of thyroxine effect on the sodium content in the frog urinary bladder	389
Javorka K., Tomori Z.: Role of the autonomic nervous system in the development of cardiovascular changes during nasal apnoea and lung inflation	511
Jílek L., Makoč Z., Trojan S., Vorel F.: Effect of long-term hypoxia upon the activity of some enzymes in the brain of rats during early postnatal ontogenesis and in adulthood	23

Kalamkarova M. B., Moskalenko I. E., Podlubnaya Z. A., Strankfeld I. G.: The effect of denervation upon the functional properties of myosin and its fragments	543
Kapitola J., Kölbel F., Schüllerová M., Schreiberová O., Vilimovská D.: Effect of autonomic blockers on the heart rate of intact rats and animals with artificial hyperthyroidism	481
Koudelková Z., Tuček S.: Choline acetyltransferase activity in the atria of the heart during training bradycardia	75
Kuntscherová J.: Effect of single feeding on the acetylcholine content of the diaphragm and extensor digitorum longus of albino rats	393
Lošťický C., Jelinek R.: Interaction of histones with human serum proteins	341
Macková E. V., Hník P.: Some hormonal factors (hypophysectomy, castration and testosterone administration) modifying the course of "compensatory" muscle hypertrophy in the rat	325
Mališ F., Frič P., Štěpánková R., Kruml J.: Trypsin and chymotrypsin activity of the intestinal content in germ free, monoassociated and conventional rabbits	71
Malý J., Schück O.: Effect of KCl on renal uric acid excretion	213
Mejsnar J., Červinka M., Janský L.: Substitution of calorogenic effects of noradrenaline and adrenaline and differences in their inhibition by propranolol	201
Mourek J.: Influence of age and starvation on pO_2 , pCO_2 and haematocrit values in the rat	245
Natochin Yu. V., Shakhmatova E. I.: The effect of diuretics and vasopressin on the osmotic permeability of the frog urinary bladder	529
Nosálová G., Kovalčík V.: Effect of reserpine on the calcium content of rat aorta at different stages of development	309
Novotná R., Janský L.: Effect of different environmental temperatures on the serotonin concentration and turnover in the brain stem of a hibernator	37
Oliva I., Ipser J., Kotková K.: Evaluation of pulse wave morphology by Fourier's harmonic analysis: methodological procedure and results of a physiological test	81
Orlíček J., Ruščák M.: Some properties of mitochondrial and cell sap alanine aminotransferase of the rat heart	223
Ošťádalová I.: The effect of single dose of oestrogens administered during the early postnatal period on the DNA content of rat bone epiphyses	97
Paleček F., Chválová M.: Pattern of breathing in the rat	159
Pospíšilová D., Janský L.: Effect of various adaptational temperatures on oxidative capacity of the brown adipose tissue	519
Příbyl T.: Effect of colchicine and demecolcine on the serum ceruloplasmin level in rats	489
Radomirov R., Kadlec O.: Effect of papaverine on the longitudinal and circular smooth muscle of the guinea-pig caecum	349
Řeřichová E., Kubišta V., Phan Anh, Kalina T.: The influence of denervation on the maturation of the flight muscle of <i>periplaneta americana</i>	51
Sechser T., Vaněček J., Rašková H., Jiřička Z., Matějčková D., Matějovská V.: Pregnancy interrupting effects of some bacterial toxins	155
Sedláček J.: Foetal and neonatal development of evoked responses in guinea-pig auditory cortex	13
Sedláček J.: Acoustic and somatosensory evoked responses in the brain hemispheres of chick embryos	103
Sedláček J.: Development of spontaneous motility in chick embryos. Normal development and the activating effect of strychnine and picrotoxin	505
Servít Z., Strejčková A.: Influence of nasal respiration upon normal EEG and epileptic electrographic activities in frog and turtle	109
Slaviček J.: The effect of Ca^{2+} , temperature and sucrose upon potassium contracture of the isolated rat right ventricle	183
Slaviček J.: The effect of SO_4^{2-} , NO_3^- , Ca^{2+} and temperature upon sodium-free, contracture, isotonic and isometric contraction of the isolated rat right ventricle	188
Sotorník I., Schück O.: Effect of single dose of diuretics on renal magnesium excretion in man, with special reference to their site of action	207
Sova O., Pástorová B.: Study of cystinaminopeptidase heterogeneity in animal sera by the isoelectric focusing method	139
Sova O., Toporková M.: Changes in the proportion of serum proteins induced by protein depletion in adapted and non-adapted rats	561
Syrový I.: The relation between ATPase activity and light chains of myosin in developing, adult and denervated muscles of several animal species	295

Šebestík V., Petz R.: Thermostability of the erythrocytes of mice exposed to the action of a magnetic field	241
Špunda J., Štěrba O.: Thiopental anaesthesia and the acid-base balance in the blood of experimental dogs	173
Štípek S., Jílek L.: Effect of stagnant hypoxia on acid ribonuclease activity in the rat prosencephalon during ontogenesis	31
Šulc K., Trávníček T., Neuwirt J., Radikovská E.: Haemoglobin types in rat peripheral blood and bone marrow cells in rats after a single blood loss	345
Tikal K., Kunz K.: Results of correlation of values of social-contact and individual behaviour of rats with liver tryptophan pyrrolase activity	231
Vaněček J., Illnerová H.: Effect of dihydroxyphenylalanine imipramine and caffeine on the light induced decrease in nocturnal serotonin N-acetyl-transferase in the rat pineal gland	217
Toporková M., Sova O.: Effect of rhythmic alternation of protein depletion and repletion on the proportion and properties of haemoglobin in the rat	365
Trojanová M., Karásek F., Průžková V., Mourek J.: Influence of Cerebrolysin ^(R) on the resistance of rats to anoxia	319
Valenta M., Čepica S., Šlechta V.: Lactate and malate dehydrogenases in the muscles and male genital tract of the rabbit	399
Viktora L., Fiala J., Petz R.: Effect of prolonged exposure to a magnetic field on the haematopoietic stem cell	359
Viktora L., Jozová O., Zoubková M.: The absolute eosinophil count in experimental animals	355
<i>Short communications</i>	
Bartoš L.: Treatment and prevention of mass incidence of corneal keratopathy in young rats	93
Mareš P., Payne J., Fischer J.: The electrographic pattern of homocysteine-induced seizures in the rat	427
Pařízek J., Kalousková J., Korunová V., Beneš J., Pavlík L.: The protective effect of pretreatment with selenite on the toxicity of dimethylselenide	573
Petz R., Ježková Z.: Stress and experimental atherosclerosis	375
Poledna J., Zachar J., Zacharová D.: Square wave analysis of the Falk-Fatt model in isolated muscle fibres	569
Šimek V.: Influence of single administration of different diets on the energy metabolism at temperatures of 10, 20 and 30° in the golden hamster	251
Šimek V., Bartošová D., Petrásek R.: Effect of three weeks' administration of different diets on the energy metabolism of mice at temperatures of 10, 20 and 30°C	381
<i>Proceedings of the Czechoslovak Physiological Society, September 10—12, 1975</i>	255
<i>Proceedings of the Czechoslovak Physiological Society, January 28—30, 1976</i>	431

Author index

- Aneiros-Riba R. 67
 Aquino-Cias J. 67
 Babický A. 193
 Bartoš L. 93
 Bartošová D. 381
 Beneš J. 573
 Blahošová A. 235
 Borovanský J. 87
 Boďa K. 333
 Brabcová J. 115
 Chlebounová J. 407
 Chocholová L. 129
 Chorváthová V. 123
 Chválová M. 159
 Čepica S. 399, 551
 Červeň J. 123
 Červinka M. 201
 Dědina B. 371
 Dlouhá H. 535
 Drahot a Z. 115
 Duchoň J. 87
 Duda P. 59, 495
 Dvořák M. 7
 Dzúrik R. 123
 Erdősová R. 1
 Fiala J. 167, 359, 419
 Fischer J. 427
 Frič P. 71
 Grafnetterová J. 235
 Gutmann E. 43
 Hájek I. 301
 Havassy I. 333
 Herget J. 411
 Hernandez-Mesa N. 67
 Hník P. 325
 Holuša R. 411
 Horčíčko J. 87
 Hrachovina V. 313
 Husáková A. 147
 Illnerová H. 217
 Indra M. 371
 Ipser J. 81
 Itze L. 289
 Jakoubek B. 301
 Janáček K. 385, 389
 Janský L. 37, 201, 519
 Javorka K. 511
 Jelínek R. 341
 Jeřábek K. 407
 Ježková Z. 375
 Jílek J. 23, 31
 Jirásek A. 167
 Jiříčka Z. 155
 Jozová O. 355
 Kadlec O. 349
 Kalamkarova M. B. 543
 Kalina T. 51
 Kalousková J. 573
 Kapitola J. 481
 Karásek F. 319
 Kolář J. 193
 Korunová V. 573
 Košta K. 333
 Kotíková K. 81
 Koudelková Z. 75
 Kovalčík V. 309
 Kölbel F. 481
 Kraus M. 1
 Krekule I. 371
 Kruml J. 71
 Kubišta V. 51
 Kuntscherová J. 393
 Kunz K. 231
 Loštický C. 341
 Macková E. V. 325
 Makoč Z. 23
 Mališ F. 71
 Mareš P. 427
 Matějovská D. 155
 Matějovská V. 155
 Mejstnar J. 201
 Melichna J. 43
 Moskalenko I. E. 543
 Mourek J. 245, 313, 319
 Natchin Yu. V. 529
 Nemec R. 123
 Neradilová M. 235
 Neuwirt J. 349
 Nosálová G. 309
 Novotná R. 37
 Oliva I. 81
 Ondřejčka R. 123
 Orlický J. 223
 Ošťádalová I. 97, 193
 Ozdín L. 123
 Paleček F. 159, 411
 Pařízek J. 573
 Pástorová B. 139
 Pavlásek J. 59, 495
 Pavlík J. 193
 Pavlík L. 573
 Pavlů V. 551
 Payne J. 427
 Petrásek R. 381
 Petz R. 241, 359, 375
 Phan Anh 51
 Podlubnaya Z. A. 543
 Poledna J. 569
 Pospíšilová D. 519
 Průžková V. 319
 Příbyl T. 489
 Radíková E. 345
 Radomirov R. 349
 Rao K. V. N. 289
 Raszyk J. 7
 Rašková H. 155
 Rothenberg S. 371
 Ruščák M. 223
 Rybošová E. 333
 Rybová R. 385, 389
 Řeřichová E. 51
 Schreiberová O. 481
 Schück O. 207
 Schüllerová M. 481
 Sechser T. 155
 Sedláček J. 13, 103, 505
 Shakhmatova E. I. 529
 Slaviček J. 183, 188
 Slavíková M. 385, 389
 Sotorník I. 207
 Sova O. 139, 385, 561
 Strankfeld I. G. 543
 Strejčková A. 103
 Syrový I. 43, 295
 Sebestík V. 241
 Šimek J. 147
 Šimek V. 251, 381
 Šlecht a V. 399
 Špunda J. 173
 Štěpánková R. 71
 Štěrba O. 173
 Štípek S. 31
 Šulc K. 345
 Tikal K. 231
 Tomori Z. 511
 Toporková M. 365, 561
 Trávníček T. 345
 Trojan S. 23
 Trojanová M. 319
 Tuček S. 75
 Valenta M. 399, 551
 Vaněček J. 155
 Vaněček J. 217
 Vesselinovitch S. D. 289
 Viktora L. 167, 355, 359, 419
 Vilimovská D. 481
 Vízek M. 411
 Vorel F. 23
 Zachar J. 569
 Zacharová D. 569
 Zoubková M. 355
 Žalud P. 371



Digitized by the Internet Archive
in 2024

